

AMENDMENT

In the Specification:

Please insert the following paragraph on page 2, before "Background of the Invention":

The sequence listing submitted on compact disc, in compliance with 37 C.F.R. § 1.52(e)(5), is incorporated by reference. Two separate compact discs are submitted, each containing the file "02-742-N 400.141 Sequence Listing" (855,360 bytes in size), each created on CD on October 4, 2004.

Please replace Table III:

Please replace originally filed Table III (pp. 195-221), with substitute Table III (pp. 195-221), attached herewith.

REMARKS

Amendment to Specification

The sequence listing is incorporated by reference by entry of the paragraph before "Background of the Invention."

The substitute Table III merely corrects certain format errors to the sequences, which are obvious in light of the description of the "stab" chemistry associated with each sequence in the Table (SEQ ID NOs: 2489, 2283, 2281). Further unique SEQ ID NOs were inserted for those sequences that were previously unidentified (e.g., pp. 216-221). No new matter is introduced by this amendment.

Oath or Declaration

Enclosed is an executed Declaration and Power of Attorney, pursuant to 37 C.F.R. §1.63. A check in the amount of \$65.00 accompanies this Response pursuant to 37 C.F.R. § 1.27.

Sequence Listing

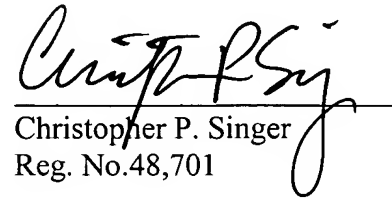
In compliance with 37 C.F.R § 1.821-1.825 and § 1.52(e), the applicant herewith submits the Sequence Listing on Compact Disc-Recordable (CD-R) medium in duplicate (COPY 1 and COPY 2), in lieu of the paper copy under 37 C.F.R. § 1.821(c), and computer readable form copy (COPY 3). As required by 37 C.F.R. 1.821(e), 1.821(f), 1.821(g), 1.825(b), and/or 1.825(d), the information recorded in computer readable form is identical to the written form and includes no new matter. A separate statement of compliance is included herewith.

The Sequence Listing has been generated from the specification and does not constitute new subject matter. The Sequence Listing has been prepared with PatentIn Ver.3.0 and checked with Checker Version 4.0 Program. No error has been found.

Respectfully submitted,
McDonnell Boehnen Hulbert Berghoff
LLP

Date: October 4, 2004

By:


Christopher P. Singer
Reg. No.48,701